

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: North Slope Borough****Federal Tax ID: 9200042378****Project Title:****Project Type: New Construction and Land Acquisition**

North Slope Borough - Kaktovik Airport Relocation

State Funding Requested: \$10,000,000
One-Time Need**House District: 40 / T****Brief Project Description:**

The funding will be used to relocate the Kaktovik airport.

Funding Plan:

Total Project Cost:	\$50,282,000
Funding Already Secured:	(\$40,282,000)
FY2013 State Funding Request:	<u>(\$10,000,000)</u>
Project Deficit:	\$0

*Funding Details:**Federal AIP funds 36,000,000**NSB match 4,282,000***Detailed Project Description and Justification:**

This project would complete the funding package for the new Kaktovik airport. The existing airport is on an exposed gravel spit located northeast of Barter Island between the Okpilak and Jago rivers on the Beaufort Sea. The existing runway is exposed to water on three sides and is periodically submerged by Beaufort Sea storms. The new airport will be in the center of Barter Island. This action is necessary to provide a flood-resistant facility above the 100 year elevation that is consistent with FAA's mission and design standards. The NSB and the airport sponsor, proposes to construct a new 4,500-foot by 100-foot runway, taxiway, apron, access road, and airport lighting system. A new access road, landfill and sewage lagoon will be constructed and the existing landfill and sewage lagoon will be closed and the land used for the apron area. The material source for this project will be from an upland source on the mainland approximately 3.5 miles south of Barter Island. An ice road will be constructed across the Kaktovik Lagoon for the material haul. The project will require approximately 873,000 cubic yards of gravel fill.

Project Timeline:

See attached project estimate prepared by HDL October 21, 2011.

Construction will proceed in two phases, phase 1 will begin in FY 12 and Phase 2 will begin in FY 13.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

North Slope Borough

Grant Recipient Contact Information:

Name:	James Sceeles
Title:	Director, Capital Improvement Projects Management
Address:	1274 Agvik St. Barrow, Alaska 99723
Phone Number:	852-0200
Email:	james.sceeles@north-slope.org

Has this project been through a public review process at the local level and is it a community priority? ☒ Yes ☐ No



75% Project Estimate Kaktovik Airport Relocation Project

Prepared for North Slope Borough by:

Mark Swenson, P.E.

Ryan Norkoli, P.E.

HDL **HATTENBURG DILLEY & LINNELL**
Engineering Consultants

3335 Arctic Blvd., Ste. 100

Anchorage, AK 99503

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October 21, 2011

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

Project Cost Summary

Project Phase	Duration	Estimated Construction Cost	Estimated Construction Admin Cost	10% Contingency	Total Project Cost	95% FAA Funded	5% Local Match
Phase 1	July 2012 - Aug 2013	\$ 20,011,650	\$ 1,500,000	\$ 2,151,165	\$ 23,663,000	\$ 22,480,000	\$ 1,183,000
Phase 2	Aug 2013 - Dec 2014	\$ 20,741,000	\$ 1,000,000	\$ 2,174,100	\$ 23,915,000	\$ 22,719,000	\$ 1,196,000
Phase 3	Dec 2014 - Sept 2015	\$ 1,958,200	\$ 500,000	\$ 245,820	\$ 2,704,000	\$ 2,569,000	\$ 135,000
		\$ 42,710,850	\$ 3,000,000	\$ 4,571,000	\$ 50,282,000	\$ 47,768,000	\$ 2,514,000

**Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE**

TOTAL PROJECT ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
D-701a(1)	Corrugated Steel Pipe, 30-inch	900	L.F.	\$ 225.00	\$ 202,500.00
D-701a(2)	Corrugated Steel Pipe, 24-inch	225	L.F.	\$ 200.00	\$ 45,000.00
D-701a(3)	Corrugated Steel Pipe, 12-inch	250	L.F.	\$ 175.00	\$ 43,750.00
F-162a	8-foot Chain-Link Fence	4,300	L.F.	\$ 175.00	\$ 752,500.00
F-162c	20-foot Wide Double Swing Gate	1	Each	\$ 5,000.00	\$ 5,000.00
F-162e	24-foot Wide Double Cantilever Gate	1	Each	\$ 8,000.00	\$ 8,000.00
F-162f	4-foot Wide Pedestrian Gate (w/Keyless Lock)	2	Each	\$ 1,500.00	\$ 3,000.00
F-170a	Steel Bollard	10	Each	\$ 1,200.00	\$ 12,000.00
G-100a	Mobilization and Demobilization	All Req'd	L.S.	\$ 3,000,000.00	\$ 3,000,000.00
G-115a	Worker Meals and Lodging, or Per Diem	All Req'd	L.S.	\$ 2,000,000.00	\$ 2,000,000.00
G-130a	Field Office	All Req'd	L.S.	\$ 50,000.00	\$ 50,000.00
G-130b	Field Laboratory	All Req'd	L.S.	\$ 35,000.00	\$ 35,000.00
G-130g	Nuclear Testing Equipment Storage Shed	1	Each	\$ 8,000.00	\$ 8,000.00
G-131a	Engineering Transportation (Truck)	1	Each	\$ 40,000.00	\$ 40,000.00
G-131b	Engineering Transportation (ATV)	2	Each	\$ 15,000.00	\$ 30,000.00
G-131c	Engineering Transportation (Snowmachine)	2	Each	\$ 15,000.00	\$ 30,000.00
G-135a	Construction Surveying by the Contractor	All Req'd	L.S.	\$ 200,000.00	\$ 200,000.00
G-200a	Contractor Quality Control Program	All Req'd	L.S.	\$ 300,000.00	\$ 300,000.00
G-710a	Highway Traffic Maintenance	All Req'd	L.S.	\$ 60,000.00	\$ 60,000.00
L-100b*	Regulator, L-828	1	Each	\$ 16,000.00	\$ 16,000.00
L-100d*	Medium Intensity Runway Edge and Threshold Light, L-861 and L-861E	64	Each	\$ 2,500.00	\$ 160,000.00
L-100e*	Taxiway Edge Light, L-861T	19	Each	\$ 2,500.00	\$ 47,500.00
L-100p*	Handhole, L-867, Size B	4	Each	\$ 1,000.00	\$ 4,000.00
L-100q*	Junction Box, Type II	2	Each	\$ 1,600.00	\$ 3,200.00
L-100ap	Spare Parts	All Req'd	L.S.	\$ 5,000.00	\$ 5,000.00
L-101b*	Rotating Beacon, Medium Intensity, L-801A	1	Each	\$ 12,000.00	\$ 12,000.00
L-107a*	8-foot Lighted Wind Cone, in place	1	Each	\$ 15,000.00	\$ 15,000.00

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

TOTAL PROJECT ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
L-108a*	Underground Cable #8 AWG, copper, 5 kV FAA type "C", L-824	15,700	L.F.	\$ 3.50	\$ 54,950.00
L-108c*	#6 Bare Copper Ground Conductor	14,100	L.F.	\$ 3.00	\$ 42,300.00
L-108g*	Ground Rod	28	Each	\$ 300.00	\$ 8,400.00
L-109c*	Electrical Enclosure and Foundation in Place	1	Each	\$ 45,000.00	\$ 45,000.00
L-109d*	Installation of Electrical Equipment in New or Existing Structure	1	L.S.	\$ 35,000.00	\$ 35,000.00
L-110a*	2-inch Rigid Steel Conduit	650	L.F.	\$ 25.00	\$ 16,250.00
L-110g*	2-inch PE Conduit	14,100	L.F.	\$ 8.00	\$ 112,800.00
L-132a*	Install Approach Lighting Aids	1	L.S.	\$ 350,000.00	\$ 350,000.00
L-145a	Generator System	1	L.S.	\$ 300,000.00	\$ 300,000.00
L-155a*	Flood Lighting	1	LS	\$ 20,000.00	\$ 20,000.00
P-152h(2)	Borrow Measured in Final Position	455,000	C.Y.	\$ 45.00	\$ 20,475,000.00
P-152af	Settlement Platform	6	Each	\$ 1,500.00	\$ 9,000.00
P-157a	Erosion, Sediment, and Pollution Control Administration	All Req'd	L.S.	\$ 100,000.00	\$ 100,000.00
P-165a	Removal of Structures	All Req'd	L.S.	\$ 31,000.00	\$ 31,000.00
P-167a	Dust Palliative	169,000	S.Y.	\$ 2.60	\$ 439,400.00
P-190a	Insulation Board, R-20	1,400,000	S.F.	\$ 5.00	\$ 7,000,000.00
P-208a	Crushed Aggregate Surface Course	31,000	C.Y.	\$ 60.00	\$ 1,860,000.00
P-208e*	Crushed Aggregate Surface Course Stockpile	4,000	C.Y.	\$ 45.00	\$ 180,000.00
P-640b	Segmented Circle (Panel-Type)	All Req'd	L.S.	\$ 42,000.00	\$ 42,000.00
P-650a	Soil Anchor Tie-down, Buried Steel Plate	3	Set	\$ 1,600.00	\$ 4,800.00
P-660b	Reflective Marker, Type II	20	Each	\$ 140.00	\$ 2,800.00
P-660c	Cone, 18-Inch	76	Each	\$ 100.00	\$ 7,600.00
P-661a	Standard Sign	200	S.F.	\$ 180.00	\$ 36,000.00
P-671a	Runway Closure Marker, Vinyl Mesh Panel	2	Each	\$ 35,000.00	\$ 70,000.00
P-681a	Geotextile, Separation	240,000	S.Y.	\$ 3.50	\$ 840,000.00
P-700a	Ice Road	All Req'd	L.S.	\$ 1,000,000.00	\$ 1,000,000.00
T-901a	Seeding	138,000	S.Y.	\$ 0.50	\$ 69,000.00

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

TOTAL PROJECT ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
T-901c	Water for Maintenance	1,200	M-Gal	\$ 35.00	\$ 42,000.00
T-905a	Topsoiling	138,000	S.Y.	\$ 3.00	\$ 414,000.00
T-908a	Bonded Fiber Matrix	138,000	S.Y.	\$ 2.00	\$ 276,000.00
U-500b*	Electrical Line Extension	1	L.S.	\$ 425,000.00	\$ 425,000.00
X-xxx	Perforated HDPE Pipe, 3-inch	1,100	L.F.	\$ 1.00	\$ 1,100.00
X-xxx	Existing Landfill Closure	1	L.S.	\$ 50,000.00	\$ 50,000.00
X-xxx	Wetland Mitigation Measures	1	L.S.	\$ 1,000,000.00	\$ 1,000,000.00
X-xxx	Landfill Burnbox	1	L.S.	\$ 120,000.00	\$ 120,000.00
X-xxx	Landfill/Sewage Lagoon Liner	96,000	S.F.	\$ 1.50	\$ 144,000.00

TOTAL BASIC BID \$ 42,710,850

Construction Administration \$ 3,000,000

10% contingency \$ 4,571,000

TOTAL \$ 50,281,850

ASSUMPTIONS:

Single Season Gravel Haul

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

PHASE 1 ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
D-701a(1)	Corrugated Steel Pipe, 30-inch	900	L.F.	\$ 225.00	\$ 202,500.00
D-701a(2)	Corrugated Steel Pipe, 24-inch	225	L.F.	\$ 200.00	\$ 45,000.00
D-701a(3)	Corrugated Steel Pipe, 12-inch	250	L.F.	\$ 175.00	\$ 43,750.00
F-162a	8-foot Chain-Link Fence	0	L.F.	\$ 175.00	\$ -
F-162c	20-foot Wide Double Swing Gate	0	Each	\$ 5,000.00	\$ -
F-162e	24-foot Wide Double Cantilever Gate	0	Each	\$ 8,000.00	\$ -
F-162f	4-foot Wide Pedestrian Gate (w/Keyless Lock)	0	Each	\$ 1,500.00	\$ -
F-170a	Steel Bollard	0	Each	\$ 1,200.00	\$ -
G-100a	Mobilization and Demobilization	0.60	L.S.	\$ 3,000,000.00	\$ 1,800,000.00
G-115a	Worker Meals and Lodging, or Per Diem	0.40	L.S.	\$ 2,000,000.00	\$ 800,000.00
G-130a	Field Office	0.60	L.S.	\$ 50,000.00	\$ 30,000.00
G-130b	Field Laboratory	0.60	L.S.	\$ 35,000.00	\$ 21,000.00
G-130g	Nuclear Testing Equipment Storage Shed	0.60	Each	\$ 8,000.00	\$ 4,800.00
G-131a	Engineering Transportation (Truck)	0.80	Each	\$ 40,000.00	\$ 32,000.00
G-131b	Engineering Transportation (ATV)	1.60	Each	\$ 15,000.00	\$ 24,000.00
G-131c	Engineering Transportation (Snowmachine)	1.60	Each	\$ 15,000.00	\$ 24,000.00
G-135a	Construction Surveying by the Contractor	0.40	L.S.	\$ 200,000.00	\$ 80,000.00
G-200a	Contractor Quality Control Program	0.40	L.S.	\$ 300,000.00	\$ 120,000.00
G-710a	Highway Traffic Maintenance	0.40	L.S.	\$ 60,000.00	\$ 24,000.00
L-100b*	Regulator, L-828	0	Each	\$ 16,000.00	\$ -
L-100d*	Medium Intensity Runway Edge and Threshold Light, L-861 and L-861E	0	Each	\$ 2,500.00	\$ -
L-100e*	Taxiway Edge Light, L-861T	0	Each	\$ 2,500.00	\$ -
L-100p*	Handhole, L-867, Size B	0	Each	\$ 1,000.00	\$ -
L-100q*	Junction Box, Type II	0	Each	\$ 1,600.00	\$ -
L-100ap	Spare Parts	0	L.S.	\$ 5,000.00	\$ -
L-101b*	Rotating Beacon, Medium Intensity, L-801A	0	Each	\$ 12,000.00	\$ -
L-107a*	8-foot Lighted Wind Cone, in place	0	Each	\$ 15,000.00	\$ -

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

PHASE 1 ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
L-108a*	Underground Cable #8 AWG, copper, 5 kV FAA type "C", L-824	0	L.F.	\$ 3.50	\$ -
L-108c*	#6 Bare Copper Ground Conductor	0	L.F.	\$ 3.00	\$ -
L-108g*	Ground Rod	0	Each	\$ 300.00	\$ -
L-109c*	Electrical Enclosure and Foundation in Place	0	Each	\$ 45,000.00	\$ -
L-109d*	Installation of Electrical Equipment in New or Existing Structure	0.00	L.S.	\$ 35,000.00	\$ -
L-110a*	2-inch Rigid Steel Conduit	0	L.F.	\$ 25.00	\$ -
L-110g*	2-inch PE Conduit	0	L.F.	\$ 8.00	\$ -
L-132a*	Install Approach Lighting Aids	0.00	L.S.	\$ 350,000.00	\$ -
L-145a	Generator System	0.00	L.S.	\$ 300,000.00	\$ -
L-155a*	Flood Lighting	0.00	LS	\$ 20,000.00	\$ -
P-152h(2)	Borrow Measured in Final Position	330,000	C.Y.	\$ 45.00	\$ 14,850,000.00
P-152af	Settlement Platform	3	Each	\$ 1,500.00	\$ 4,500.00
P-157a	Erosion, Sediment, and Pollution Control Administration	0.34	L.S.	\$ 100,000.00	\$ 34,000.00
P-165a	Removal of Structures	1.00	L.S.	\$ 31,000.00	\$ 31,000.00
P-167a	Dust Palliative	0	S.Y.	\$ 2.60	\$ -
P-190a	Insulation Board, R-20	0	S.F.	\$ 5.00	\$ -
P-208a	Crushed Aggregate Surface Course	0	C.Y.	\$ 60.00	\$ -
P-208e*	Crushed Aggregate Surface Course Stockpile	0	C.Y.	\$ 45.00	\$ -
P-640b	Segmented Circle (Panel-Type)	0.00	L.S.	\$ 42,000.00	\$ -
P-650a	Soil Anchor Tie-down, Buried Steel Plate	0	Set	\$ 1,600.00	\$ -
P-660b	Reflective Marker, Type II	0	Each	\$ 140.00	\$ -
P-660c	Cone, 18-Inch	0	Each	\$ 100.00	\$ -
P-661a	Standard Sign	0	S.F.	\$ 180.00	\$ -
P-671a	Runway Closure Marker, Vinyl Mesh Panel	0	Each	\$ 35,000.00	\$ -
P-681a	Geotextile, Separation	240,000	S.Y.	\$ 3.50	\$ 840,000.00
P-700a	Ice Road	1.00	L.S.	\$ 1,000,000.00	\$ 1,000,000.00
T-901a	Seeding	0	S.Y.	\$ 0.50	\$ -

**Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE**

PHASE 2 ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
D-701a(1)	Corrugated Steel Pipe, 30-inch	0	L.F.	\$ 225.00	\$ -
D-701a(2)	Corrugated Steel Pipe, 24-inch	0	L.F.	\$ 200.00	\$ -
D-701a(3)	Corrugated Steel Pipe, 12-inch	0	L.F.	\$ 175.00	\$ -
F-162a	8-foot Chain-Link Fence	4,300	L.F.	\$ 175.00	\$ 752,500.00
F-162c	20-foot Wide Double Swing Gate	1	Each	\$ 5,000.00	\$ 5,000.00
F-162e	24-foot Wide Double Cantilever Gate	1	Each	\$ 8,000.00	\$ 8,000.00
F-162f	4-foot Wide Pedestrian Gate (w/Keyless Lock)	2	Each	\$ 1,500.00	\$ 3,000.00
F-170a	Steel Bollard	10	Each	\$ 1,200.00	\$ 12,000.00
G-100a	Mobilization and Demobilization	0.00	L.S.	\$ 3,000,000.00	\$ -
G-115a	Worker Meals and Lodging, or Per Diem	0.40	L.S.	\$ 2,000,000.00	\$ 800,000.00
G-130a	Field Office	0.20	L.S.	\$ 50,000.00	\$ 10,000.00
G-130b	Field Laboratory	0.20	L.S.	\$ 35,000.00	\$ 7,000.00
G-130g	Nuclear Testing Equipment Storage Shed	0.20	Each	\$ 8,000.00	\$ 1,600.00
G-131a	Engineering Transportation (Truck)	0.10	Each	\$ 40,000.00	\$ 4,000.00
G-131b	Engineering Transportation (ATV)	0.20	Each	\$ 15,000.00	\$ 3,000.00
G-131c	Engineering Transportation (Snowmachine)	0.20	Each	\$ 15,000.00	\$ 3,000.00
G-135a	Construction Surveying by the Contractor	0.40	L.S.	\$ 200,000.00	\$ 80,000.00
G-200a	Contractor Quality Control Program	0.40	L.S.	\$ 300,000.00	\$ 120,000.00
G-710a	Highway Traffic Maintenance	0.40	L.S.	\$ 60,000.00	\$ 24,000.00
L-100b*	Regulator, L-828	1	Each	\$ 16,000.00	\$ 16,000.00
L-100d*	Medium Intensity Runway Edge and Threshold Light, L-861 and L-861E	64	Each	\$ 2,500.00	\$ 160,000.00
L-100e*	Taxiway Edge Light, L-861T	19	Each	\$ 2,500.00	\$ 47,500.00
L-100p*	Handhole, L-867, Size B	4	Each	\$ 1,000.00	\$ 4,000.00
L-100q*	Junction Box, Type II	2	Each	\$ 1,600.00	\$ 3,200.00
L-100ap	Spare Parts	1.00	L.S.	\$ 5,000.00	\$ 5,000.00
L-101b*	Rotating Beacon, Medium Intensity, L-801A	1	Each	\$ 12,000.00	\$ 12,000.00
L-107a*	8-foot Lighted Wind Cone, in place	1	Each	\$ 15,000.00	\$ 15,000.00

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

PHASE 2 ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
L-108a*	Underground Cable #8 AWG, copper, 5 kV FAA type "C", L-824	15,700	L.F.	\$ 3.50	\$ 54,950.00
L-108c*	#6 Bare Copper Ground Conductor	14,100	L.F.	\$ 3.00	\$ 42,300.00
L-108g*	Ground Rod	28	Each	\$ 300.00	\$ 8,400.00
L-109c*	Electrical Enclosure and Foundation in Place	1	Each	\$ 45,000.00	\$ 45,000.00
L-109d*	Installation of Electrical Equipment in New or Existing Structure	1.00	L.S.	\$ 35,000.00	\$ 35,000.00
L-110a*	2-inch Rigid Steel Conduit	650	L.F.	\$ 25.00	\$ 16,250.00
L-110g*	2-inch PE Conduit	14,100	L.F.	\$ 8.00	\$ 112,800.00
L-132a*	Install Approach Lighting Aids	1.00	L.S.	\$ 350,000.00	\$ 350,000.00
L-145a	Generator System	1.00	L.S.	\$ 300,000.00	\$ 300,000.00
L-155a*	Flood Lighting	1.00	LS	\$ 20,000.00	\$ 20,000.00
P-152h(2)	Borrow Measured in Final Position	125,000	C.Y.	\$ 45.00	\$ 5,625,000.00
P-152af	Settlement Platform	3	Each	\$ 1,500.00	\$ 4,500.00
P-157a	Erosion, Sediment, and Pollution Control Administration	0.33	L.S.	\$ 100,000.00	\$ 33,000.00
P-165a	Removal of Structures	0.00	L.S.	\$ 31,000.00	\$ -
P-167a	Dust Palliative	150,000	S.Y.	\$ 2.60	\$ 390,000.00
P-190a	Insulation Board, R-20	1,400,000	S.F.	\$ 5.00	\$ 7,000,000.00
P-208a	Crushed Aggregate Surface Course	31,000	C.Y.	\$ 60.00	\$ 1,860,000.00
P-208e*	Crushed Aggregate Surface Course Stockpile	4,000	C.Y.	\$ 45.00	\$ 180,000.00
P-640b	Segmented Circle (Panel-Type)	1.00	L.S.	\$ 42,000.00	\$ 42,000.00
P-650a	Soil Anchor Tie-down, Buried Steel Plate	0	Set	\$ 1,600.00	\$ -
P-660b	Reflective Marker, Type II	0	Each	\$ 140.00	\$ -
P-660c	Cone, 18-Inch	0	Each	\$ 100.00	\$ -
P-661a	Standard Sign	200	S.F.	\$ 180.00	\$ 36,000.00
P-671a	Runway Closure Marker, Vinyl Mesh Panel	0	Each	\$ 35,000.00	\$ -
P-681a	Geotextile, Separation	0	S.Y.	\$ 3.50	\$ -
P-700a	Ice Road	0.00	L.S.	\$ 1,000,000.00	\$ -
T-901a	Seeding	138,000	S.Y.	\$ 0.50	\$ 69,000.00

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

PHASE 1 ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
T-901c	Water for Maintenance	0	M-Gal	\$ 35.00	\$ -
T-905a	Topsoiling	0	S.Y.	\$ 3.00	\$ -
T-908a	Bonded Fiber Matrix	0	S.Y.	\$ 2.00	\$ -
U-500b*	Electrical Line Extension	0.00	L.S.	\$ 425,000.00	\$ -
X-xxx	Perforated HDPE Pipe, 3-inch	1,100	L.F.	\$ 1.00	\$ 1,100.00
X-xxx	Existing Landfill Closure	0.00	L.S.	\$ 50,000.00	\$ -
X-xxx	Wetland Mitigation Measures	0.00	L.S.	\$ 1,000,000.00	\$ -
X-xxx	Landfill Burnbox	0.00	L.S.	\$ 120,000.00	\$ -
X-xxx	Landfill/Sewage Lagoon Liner	0	S.F.	\$ 1.50	\$ -

(*) Non-AIP

TOTAL BASIC BID \$ 20,011,650

Construction Administration \$ 1,500,000

10% contingency \$ 2,151,000

TOTAL \$ 23,662,650

ASSUMPTIONS:

All Gravel Hauled This Phase
Construct 4-foot Embankment

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

PHASE 2 ESTIMATE

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
T-901c	Water for Maintenance	1,200	M-Gal	\$ 35.00	\$ 42,000.00
T-905a	Topsoiling	138,000	S.Y.	\$ 3.00	\$ 414,000.00
T-908a	Bonded Fiber Matrix	138,000	S.Y.	\$ 2.00	\$ 276,000.00
U-500b*	Electrical Line Extension	1.00	L.S.	\$ 425,000.00	\$ 425,000.00
X-xxx	Perforated HDPE Pipe, 3-inch	0	L.F.	\$ 1.00	\$ -
X-xxx	Existing Landfill Closure	0.00	L.S.	\$ 50,000.00	\$ -
X-xxx	Wetland Mitigation Measures	1.00	L.S.	\$ 1,000,000.00	\$ 1,000,000.00
X-xxx	Landfill Burnbox	1.00	L.S.	\$ 120,000.00	\$ 120,000.00
X-xxx	Landfill/Sewage Lagoon Liner	96,000	S.F.	\$ 1.50	\$ 144,000.00

(*) Non-AIP

TOTAL BASIC BID \$ 20,741,000

Construction Administration \$ 1,000,000

10% contingency \$ 2,174,000

TOTAL \$ 23,915,000

ASSUMPTIONS:

Install Insulation
Construct Embankment
Install Airport Lighting

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

10/24/2011

65% ENGINEER'S ESTIMATE
NORTH SLOPE BOROUGH

Kaktovik Airport Relocation

1 Season Gravel Haul - Phase 3

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
D-701a(1)	Corrugated Steel Pipe, 30-inch	0	L.F.	\$ 225.00	\$ -
D-701a(2)	Corrugated Steel Pipe, 24-inch	0	L.F.	\$ 200.00	\$ -
D-701a(3)	Corrugated Steel Pipe, 12-inch	0	L.F.	\$ 175.00	\$ -
F-162a	8-foot Chain-Link Fence	0	L.F.	\$ 175.00	\$ -
F-162c	20-foot Wide Double Swing Gate	0	Each	\$ 5,000.00	\$ -
F-162e	24-foot Wide Double Cantilever Gate	0	Each	\$ 8,000.00	\$ -
F-162f	4-foot Wide Pedestrian Gate (w/Keyless Lock)	0	Each	\$ 1,500.00	\$ -
F-170a	Steel Bollard	0	Each	\$ 1,200.00	\$ -
G-100a	Mobilization and Demobilization	0.40	L.S.	\$ 3,000,000.00	\$ 1,200,000.00
G-115a	Worker Meals and Lodging, or Per Diem	0.20	L.S.	\$ 2,000,000.00	\$ 400,000.00
G-130a	Field Office	0.20	L.S.	\$ 50,000.00	\$ 10,000.00
G-130b	Field Laboratory	0.20	L.S.	\$ 35,000.00	\$ 7,000.00
G-130g	Nuclear Testing Equipment Storage Shed	0.20	Each	\$ 8,000.00	\$ 1,600.00
G-131a	Engineering Transportation (Truck)	0.10	Each	\$ 40,000.00	\$ 4,000.00
G-131b	Engineering Transportation (ATV)	0.20	Each	\$ 15,000.00	\$ 3,000.00
G-131c	Engineering Transportation (Snowmachine)	0.20	Each	\$ 15,000.00	\$ 3,000.00
G-135a	Construction Surveying by the Contractor	0.20	L.S.	\$ 200,000.00	\$ 40,000.00
G-200a	Contractor Quality Control Program	0.20	L.S.	\$ 300,000.00	\$ 60,000.00
G-710a	Highway Traffic Maintenance	0.20	L.S.	\$ 60,000.00	\$ 12,000.00
L-100b*	Regulator, L-828	0	Each	\$ 18,000.00	\$ -
L-100d*	Medium Intensity Runway Edge and Threshold Light, L-861 and L-861E	0	Each	\$ 2,500.00	\$ -
L-100e*	Taxiway Edge Light, L-861T	0	Each	\$ 2,500.00	\$ -
L-100p*	Handhole, L-867, Size B	0	Each	\$ 1,000.00	\$ -
L-100q*	Junction Box, Type II	0	Each	\$ 1,600.00	\$ -
L-100ap	Spare Parts	0.00	L.S.	\$ 5,000.00	\$ -

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

10/24/2011

65% ENGINEER'S ESTIMATE
NORTH SLOPE BOROUGH

Kaktovik Airport Relocation

1 Season Gravel Haul - Phase 3

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
L-101b*	Rotating Beacon, Medium Intensity, L-801A	0	Each	\$ 12,000.00	\$ -
L-107a*	8-foot Lighted Wind Cone, in place	0	Each	\$ 15,000.00	\$ -
L-108a*	Underground Cable #8 AWG, copper, 5 kV FAA type "C", L-824	0	L.F.	\$ 3.50	\$ -
L-108c*	#6 Bare Copper Ground Conductor	0	L.F.	\$ 3.00	\$ -
L-108g*	Ground Rod	0	Each	\$ 300.00	\$ -
L-109c*	Electrical Enclosure and Foundation in Place	0	Each	\$ 45,000.00	\$ -
L-109d*	Installation of Electrical Equipment in New or Existing Structure	0.00	L.S.	\$ 35,000.00	\$ -
L-110a*	2-inch Rigid Steel Conduit	0	L.F.	\$ 25.00	\$ -
L-110g*	2-inch PE Conduit	0	L.F.	\$ 8.00	\$ -
L-132a*	Install Approach Lighting Aids	0.00	L.S.	\$ 350,000.00	\$ -
L-145a	Generator System	0.00	L.S.	\$ 300,000.00	\$ -
L-155a*	Flood Lighting	0.00	LS	\$ 20,000.00	\$ -
P-152h(2)	Borrow Measured in Final Position	0	C.Y.	\$ 45.00	\$ -
P-152af	Settlement Platform	0	Each	\$ 1,500.00	\$ -
P-157a	Erosion, Sediment, and Pollution Control Administration	0.33	L.S.	\$ 100,000.00	\$ 33,000.00
P-165a	Removal of Structures	0.00	L.S.	\$ 31,000.00	\$ -
P-167a	Dust Palliative	19,000	S.Y.	\$ 2.60	\$ 49,400.00
P-190a	Insulation Board, R-20	0	S.F.	\$ 5.00	\$ -
P-208a	Crushed Aggregate Surface Course	0	C.Y.	\$ 60.00	\$ -
P-208e*	Crushed Aggregate Surface Course Stockpile	0	C.Y.	\$ 45.00	\$ -
P-640b	Segmented Circle (Panel-Type)	0.00	L.S.	\$ 42,000.00	\$ -
P-650a	Soil Anchor Tie-down, Buried Steel Plate	3	Set	\$ 1,600.00	\$ 4,800.00
P-660b	Reflective Marker, Type II	20	Each	\$ 140.00	\$ 2,800.00
P-660c	Cone, 18-Inch	76	Each	\$ 100.00	\$ 7,600.00
P-661a	Standard Sign	0	S.F.	\$ 180.00	\$ -

Kaktovik Airport Relocation Project
North Slope Borough
75% PROJECT ESTIMATE

10/24/2011

65% ENGINEER'S ESTIMATE
NORTH SLOPE BOROUGH

Kaktovik Airport Relocation

1 Season Gravel Haul - Phase 3

Pay Item Number	Pay Item Description	Quantity	Pay Unit	Unit Bid Price	Amount Bid
P-671a	Runway Closure Marker, Vinyl Mesh Panel	2	Each	\$ 35,000.00	\$ 70,000.00
P-681a	Geotextile, Separation	0	S.Y.	\$ 3.50	\$ -
P-700a	Ice Road	0.00	L.S.	\$ 1,000,000.00	\$ -
T-901a	Seeding	0	S.Y.	\$ 0.50	\$ -
T-901c	Water for Maintenance	0	M-Gal	\$ 35.00	\$ -
T-905a	Topsoiling	0	S.Y.	\$ 3.00	\$ -
T-908a	Bonded Fiber Matrix	0	S.Y.	\$ 2.00	\$ -
U-500b*	Electrical Line Extension	0.00	L.S.	\$ 425,000.00	\$ -
X-xxx	Perforated HDPE Pipe, 3-inch	0	L.F.	\$ 1.00	\$ -
X-xxx	Existing Landfill Closure	1.00	L.S.	\$ 50,000.00	\$ 50,000.00
X-xxx	Wetland Mitigation Measures	0.00	L.S.	\$ 1,000,000.00	\$ -
X-xxx	Landfill Bumbox	0.00	L.S.	\$ 120,000.00	\$ -
X-xxx	Landfill/Sewage Lagoon Liner	0	S.F.	\$ 1.50	\$ -

(*) Non-AIP

TOTAL BASIC BID \$ 1,958,200

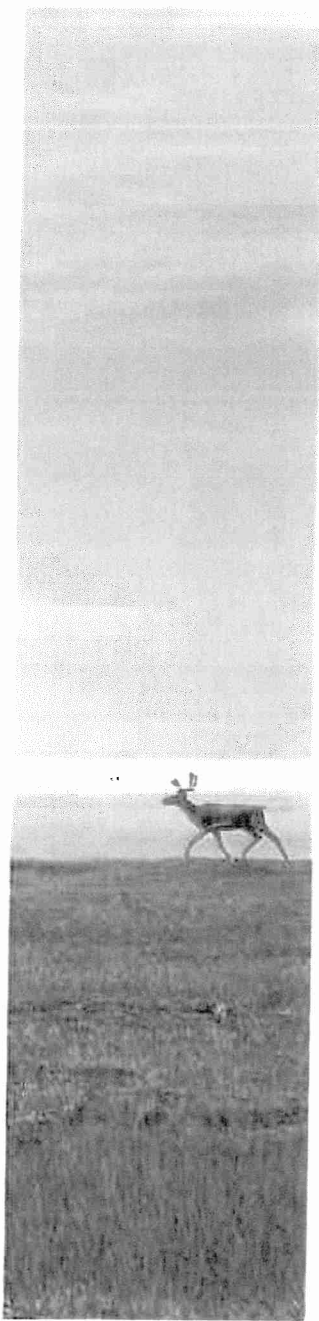
Construction Administration \$ 1,000,000

10% contingency \$ 296,000

TOTAL \$ 3,254,200

ASSUMPTIONS:

Fencing
Apron Construction
Seeding



Biological Assessment for the Relocation of the Kaktovik Airport

Kaktovik, Alaska

Prepared for
The North Slope Borough
Department of Public Works,
CIPM Division
3000 C Street, Suite N201
Anchorage, Alaska 99502
Attn: Laura Strand, Project Manager

June 2011

Prepared by



In Cooperation with
The North Slope Borough's Department of Wildlife Management

Executive Summary

The Kaktovik Airport Relocation project will relocate the community's airport from an exposed gravel spit located northeast of Barter Island between the Okpilak and Jago rivers on the Beaufort Sea to a new location near the center of Barter Island. The existing runway is exposed to water on three sides and is periodically submerged by Beaufort Sea storms. This action is necessary to provide a flood-resistant facility above the 100-year elevation that is consistent with the Federal Aviation Administration (FAA)'s mission and design standards. The North Slope Borough (NSB), the airport sponsor, proposes to construct a new 4,500-foot by 100-foot runway, taxiway, apron, access road, and airport lighting system. A new access road, landfill and sewage lagoon will be constructed and the existing landfill and sewage lagoon will be closed and the land used for the apron area. The material source for this project will be from an upland source on the mainland approximately 3.5 miles south of Barter Island. An ice road will be constructed across the Kaktovik Lagoon for the material haul. The project will require approximately 873,000 cubic yards (CY) of gravel fill.

The purpose of this Biological Assessment (BA) is to assess the effect of the proposed action on the species and critical habitats listed under the Endangered Species Act (ESA). This BA identifies the potential project effects including direct, indirect, interrelated, and interdependent effects. Table 1 provides a list of species analyzed and the effects determination.

Table ES-1 – ESA Effects Determination

Species	Listing status	Critical Habitat Status	Effects Determination for Species	Effects Determination for Critical Habitat
Polar bear (<i>Ursus maritimus</i>)	Threatened	Designated in action area	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Steller's eider (<i>Polysticta stelleri</i>)	Threatened	Designated outside of action area	May affect, not likely to adversely affect	No effect
Spectacled eider (<i>Somateria fischeri</i>)	Threatened	Designated outside of action area	May affect, not likely to adversely affect	No effect

North Slope Borough

OFFICE OF THE MAYOR

P.O. Box 69
Barrow, Alaska 99723
Phone: 907 852-2611 or 0200
Fax: 907 852-0337



Charlotte E. Brower, Mayor

January 12, 2012

Mr. Byron Huffman
Manager, Alaskan Region Airports Division
Federal Aviation Administration
222 W. 7th Avenue, Box 14
Anchorage, Alaska 99513-7587

RE: Kaktovik Airport Project Funding

Dear Mr. Huffman:

I am writing to you in response to your letter dated November 16, 2011 addressed to Past Mayor Edward Itta about the Airport Improvement Program (AIP) and the proposed new airport in Kaktovik. In your letter you outlined the available AIP funding currently planned for use on the construction of the new airport totaling \$36 million dollars. We understand that the engineer's estimate is currently at \$50.3 million, leaving a deficit of \$14.3 million needed for the construction.

The North Slope Borough (NSB) fully supports the new airport, and is prepared to provide the funds necessary to fill this deficit. The new airport in Kaktovik is a top priority project for us and we have provided a financial plan and time line listed below. We propose that the construction contract be issued under a 2-phased Notice to Proceed (NTP):

Construction Phase 1

FY2012	\$23.00 million AIP funding (Construction Phase 1)
FY2012	\$1.21 million NSB Provided Match Funding
<u>FY2012</u>	<u>\$1.5 million NSB/Private Funding</u>
	\$25.71 million

Construction Phase 2

FY2013	\$13.00 million AIP funding (Construction Phase 2)
FY2013	\$00.68 million NSB Provided Match Funding
<u>FY2013</u>	<u>\$12.94 million NSB/Private Funding</u>
	\$26.62 million

We continue to seek additional outside funding sources as a means to help meet this deficit but we are prepared at this time to commit to required funding necessary to construct the new airport on the schedule provided in this letter. We hope this will satisfy FAA information requirements to allow us to secure the AIP funding to meet both FY2012 and FY2013 funding cycles.

Please do not hesitate to contact Dave Hodges, CIPM Program Manager, 907-646-8276 or Laura Strand, P.E., CIPM Project Administrator, at 907-646-8274 if there are additional questions.

Sincerely,

A handwritten signature in black ink that reads "Charlotte Brower". The signature is written in a cursive, flowing style.

Ms. Charlotte E. Brower, Mayor
North Slope Borough

CC: Jacob Adams, NSB CAO
James H. Sceeles, Director CIPM
Charlie Sakcagak, Director Public Works
Brad Garland, FAA
Krisjon Tabisola, FAA
Laura Strand, NSB CIPM
Dave Hodges, NSB CIPM
Randy Hoffbeck, Director Admin & Finance
Tom Nicolos, NSB Airports Manager

Kaktovik Airport Relocation Project
North Slope Borough
PROJECT ESTIMATE

Project Cost Summary

Project Phase	Duration	Estimated Construction Cost	Estimated Construction Admin Cost	10% Contingency	Total Project Cost	FAA Funding	NSB Funding
Phase 1	July 2012 - April 2014	\$ 20,011,650	\$ 1,500,000	\$ 2,151,165	\$ 23,663,000	\$ 22,479,850	\$ 1,183,150
Phase 2	April 2014 - Sept 2015	\$ 22,699,200	\$ 1,500,000	\$ 2,419,920	\$ 26,619,000	\$ 13,000,000	\$ 13,619,000
		\$ 42,710,850	\$ 3,000,000	\$ 4,571,000	\$ 50,282,000	\$ 35,479,850	\$ 14,802,150